

CLAIMS:

1. Resonance security tag (1) comprising a dielectric foil material (2) provided with conductive material layer patterns (3-7) on both sides, said conductive material layer pattern on a first side of the dielectric foil material (2) being formed to provide an inductor (3), a first capacitor plate (4) connected to a first end of the inductor (3) and positioned inside the inductor (3), and a first connection element (5) connected to an opposite second end of the inductor (3),
the conductive material layer pattern on a second side of the dielectric foil material (2) being formed to provide a second capacitor plate (6) confronting the first capacitor plate (4) and a second connection element (7) connected to the second capacitor plate (6) and confronting the first connection element (5),
the first and second connection elements (5, 7) being electrically connected (8), and the dielectric foil material (2) being cut (9) along part of the circumference of the first and second capacitor plates (4, 6) and the cut-free capacitor (4, 6) being folded away from the position inside the inductor (3), thus leaving this part free for the penetration of magnetic flux through the inductor (3), characterised by the cut-free capacitor (4, 6) being folded to the second side of the dielectric foil material (2), and the connection element being formed to provide a shielding plate (7) positioned under the folded over capacitor (4, 6).
2. Resonance security tag in accordance with claim 1, characterised by the shielding plate (7) having a form and size corresponding to the form and size of the folded over first and second capacitor plates (4, 6).
3. Resonance security tag in accordance with any of the preceding claims, characterised by the conductive material layer patterns (3-7) being formed in such a way that the tag can be positioned on or inside a CD or DVD with the hole from the folded capacitor (4, 6) positioned around the central hole in the CD or DVD.
4. Method of producing a resonance security tag (1) in accordance with claim 1 or any of the claims dependent thereon, said method comprising the steps of providing a dielectric foil material (2) with conductive material layer patterns (3-7) on both sides, said conductive material layer patterns being formed to provide an inductor (3) and a capacitor (4, 6) forming a resonance circuit with the capacitor (4,

6) positioned inside the inductor (3), and further comprising the step of cutting (9) the dielectric foil material (2) along part of the circumference of the capacitor (4, 6) and folding the cut-free capacitor (4, 6) away from the position inside the inductor (3), thus leaving this part free for the penetration of magnetic flux through the inductor (3), c h a r a c t e r i s e d by the folding step being performed to fold the cut-free capacitor (4, 6) to that side of the tag, which is opposite the side on which the conductive material layer pattern is formed to provide the inductor (3).

5. Method in accordance with claim 4, c h a r a c t e r i s e d by the folding being performed by producing a preliminary folding using a jet of air or mechanical means to turn up the capacitor (4, 6), and followed by the passage of the security tag (1) past a folding tool (12) and a roller (13), whereby the turned up capacitor (4, 6) is completely folded and pressed into intimate contact with the surface of the resonance security tag (1).

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